

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094726 A1

(51) International Patent Classification⁷: **A61F 2/06** Deepak [US/SG]; 161, Killiney Road,, #09-02, Singapore 239569 (SG).

(21) International Application Number:
PCT/SG2004/000407 (74) Agent: ALBAN TAY MAHTANI & DE SILVA; 39 Robinson Road, #07-01 Robinson Point, Singapore 068911 (SG).

(22) International Filing Date:
13 December 2004 (13.12.2004) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

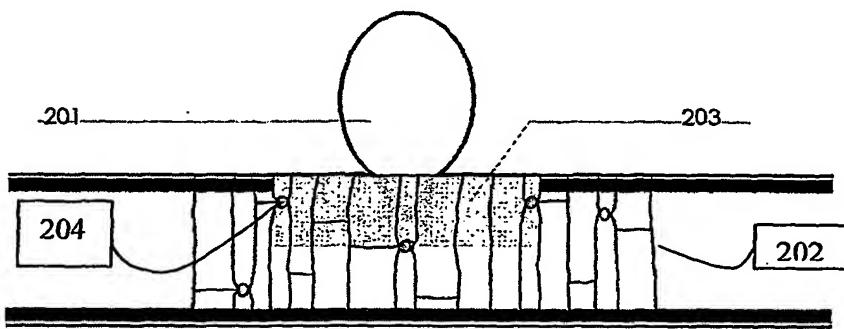
(25) Filing Language: English (71) Applicant (for all designated States except US): MERLIN MD PTE LTD [SG/SG]; 29 Woodlands Industrial Park E1, #04-13/14 Northtech (Lobby 3), Singapore 757716 (SG).

(26) Publication Language: English (72) Inventors; and (75) Inventors/Applicants (for US only): RUDAKOV, Leon [US/US]; 22 Arroyo View Circle, Belmont, California 94002 (US). O'CONNOR, Michael [US/SG]; 335 Ang Mo Kio Ave. 2, Singapore 560335 (SG). GANDHI,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: A MEDICAL DEVICE



(57) Abstract: A medical device for insertion into a bodily vessel to treat an aneurysm (201), the device comprising: a mechanically expandable device (202) expandable from a first position to a second position, said mechanically expandable device (202) is expanded radially outwardly to the second position such that the exterior surface of said mechanically expandable (202) engages with the inner surface of the vessel so as to maintain a fluid pathway through said vessel; and a membrane (203) expandable from a first position to a second position in response to expansion of said mechanically expandable device (202), said membrane (203) obstructing blood circulation to the aneurysm (201) when expanded to the second position, and at least a portion of the membrane (203) is secured to the mechanically expandable device (202) to maintain the position of the membrane (203) relative to the mechanically expandable device (202) when expanded to the second position.



Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

— *with amended claims*

Published:

— *with international search report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.